

### **DETAILED ACTION**

1. Acknowledgement is made of the RCE filed on May 09, 2011.

### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lawrence A. Maxham, Registration No. 24,483 on June 28, 2011.

Claim 42 in the application has been amended as follows:

In claim 42, line 5: append “;” to the end of “**a receiving device for the reception of the radio signals**”.

### ***Allowable Subject Matter***

3. Claims 20-54 are allowed.
4. The following is a statement of reasons for the indication of allowable subject matter:

The instant application has been amended to have independent claims 20 and 42.

The applicant's invention as recited in the amended claims 20 and 42 describes a method of transmitting MIMO signals in mobile communications systems. The MIMO signals are transmitted over an integer number of sub-channels. The signal on each sub-channel is divided

Art Unit: 2611

into two partial signals. A different polarization is assigned to each partial signal using a delay line. The polarized signals are then supplied to a common antenna.

The closest prior art of record by Erceg et al (US 2003/0050020 A1) discloses an invention that controls the polarizations of radio channel signals. However, Erceg does not disclose splitting each channel signal into two partial channel signals with a predetermined splitting ratio, and the polarizations are performed on each partial channel signal. The Examiner considers this feature makes the independent claims 20 and 42 distinct from prior art and therefore are allowable. Since claims 21-41 are depending on claim 20, claims 43-54 are depending on claim 42, they become allowable accordingly.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LIHONG YU whose telephone number is (571)270-5147. The examiner can normally be reached on 8:30 am-7:00 pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on (571) 272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2611

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/Lihong Yu/

Examiner, Art Unit 2611

/Shuwang Liu/

Supervisory Patent Examiner, Art Unit 2611